

Claims

[c1] What is claimed is:

A method for displaying a bottom-hole assembly together with a borehole trajectory, comprising:

displaying the borehole trajectory in a display window;
and

displaying the bottom-hole assembly in the display window such that the borehole trajectory and the bottom-hole assembly are in parallel and a measurement depth of the bottom-hole assembly corresponds to a measurement depth of the borehole trajectory.

[c2] The method of claim 1, wherein the bottom-hole assembly is rendered in surface shape inside the borehole trajectory and the borehole trajectory is displayed in a semitransparent color.

[c3] The method of claim 1, wherein the bottom-hole assembly is displayed outside the borehole trajectory, and wherein the bottom-hole assembly is displayed in a semitransparent color.

[c4] The method of claim 3, wherein the bottom-hole assembly is displayed in sections having different transparen-

cies.

- [c5] The method of claim 4, wherein the different transparencies are based on display widths of the sections of the bottom-hole assembly.
- [c6] The method of claim 5, wherein the display widths of the sections of the bottom-hole assembly are based on distances between a camera position and locations of the sections of the bottom-hole assembly.
- [c7] The method of claim 4, further comprising displaying information related to a section of the bottom-hole assembly.
- [c8] The method of claim 1, wherein the bottom-hole assembly is rendered in surface shape outside the borehole trajectory.
- [c9] The method of claim 8, wherein components in the bottom-hole assembly are rendered in different colors.
- [c10] The method of claim 1, further comprising animating the displayed bottom-hole assembly.
- [c11] The method of claim 10, wherein the animating corresponds to actions of the bottom-hole assembly during a drilling operation.

- [c12] A method for displaying a bottom-hole assembly together with a borehole trajectory, comprising:
displaying the borehole trajectory in a first window;
displaying the bottom-hole assembly in the first window such that the borehole trajectory and the bottom-hole assembly are in parallel and a measurement depth of the bottom-hole assembly corresponds to a measurement depth of the borehole trajectory; and
displaying an expanded view of the first window in a second window, wherein the expanded view includes a portion of the borehole trajectory and a corresponding section of the bottom-hole assembly.
- [c13] The method of claim 12, wherein the bottom-hole assembly is rendered in surface shape inside the borehole trajectory and the borehole trajectory is displayed in a semitransparent color.
- [c14] The method of claim 12, wherein the bottom-hole assembly is displayed outside the borehole trajectory, and wherein the bottom-hole assembly is displayed in a semitransparent color.
- [c15] The method of claim 14, wherein the bottom-hole assembly is displayed in sections having different transparencies.

- [c16] The method of claim 15, wherein the different transparencies are based on display widths of the sections of the bottom-hole assembly.
- [c17] The method of claim 16, wherein the display widths of the sections of the bottom-hole assembly are based on distances between a camera position and locations of the sections of the bottom-hole assembly.
- [c18] The method of claim 15, further comprising displaying information related to a section of the bottom-hole assembly.
- [c19] The method of claim 12, wherein the bottom-hole assembly is rendered in surface shape outside the borehole trajectory.
- [c20] The method of claim 19, wherein components in the bottom-hole assembly are rendered in different colors.
- [c21] The method of claim 12, further comprising animating the displayed bottom-hole assembly.
- [c22] The method of claim 21, wherein the animating corresponds to actions of the bottom-hole assembly during a drilling operation.
- [c23] The method of claim 12, wherein the first window and the second window are synchronized such that a change

in a point of interest in one window causes a change in a point of interest in the other window.

[c24] A system for displaying a bottom-hole assembly together with a borehole trajectory, the system comprising a processor and a memory storing a program having instructions for:

displaying the borehole trajectory in a display window;
and

displaying the bottom-hole assembly in the display window such that the borehole trajectory and the bottom-hole assembly are in parallel and a measurement depth of the bottom-hole assembly corresponds to a measurement depth of the borehole trajectory.

[c25] A system for displaying a bottom-hole assembly together with a borehole trajectory, the system comprising a processor and a memory storing a program having instructions for:

displaying the borehole trajectory in a first window;
displaying the bottom-hole assembly in the first window such that the borehole trajectory and the bottom-hole assembly are in parallel and a measurement depth of the bottom-hole assembly corresponds to a measurement depth of the borehole trajectory; and
displaying an expanded view of the first window in a second window, wherein the expanded view includes a

portion of the borehole trajectory and a corresponding section of the bottom-hole assembly.